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L11: Entry 1 of 3

File: EPAB

Feb 6, 2004

DOCUMENT-IDENTIFIER: FR 2843083 A1

TITLE: Device for windscreen wiping with wear indicator for use in automobile vehicles, comprises a neutralization film which is removed at the start of usage to activate the indicator

Abstract Text (1):

CHG DATE=20040529 STATUS=O>The device comprises at least one brush or strip of a windscreen wiper, where the strip is equipped with a wear indicator (10) which can display the strip usage. The wear indicator measures the period (time) of utilization and/or the wear of the windscreen wiper strip. The wear indicator is an electronic chronometer, or an electronic counter of the number of cycles of wiping, where the wiping cycle represents the movement of the strip from its stationary position back to the stationary position. The electronic chronometer or the electronic counter comprises a switch which is activated at the start of usage, and is equipped with a display including a light-emitting diode (LED) (12). The wear indicator (10) is activated by lifting a neutralization film (13). The wear indicator (10) is fastened by an adhesive and/or screws and/or clipping to at least one strip or an arm (11) of windscreen wiper. The wear indicator allows the adjustment of parameters affecting the wear such as the pressure of application, the temperature, the UV-light, the chemical composition of the rain water, the solid matter content of the rain water, the jetted water, and the characteristics of the material of the brush of windscreen wiper. In other embodiments, the wear indicator comprises (i) an indicator for measuring the chemical and/or physical reactions as a function of time on at least one brush, (ii) a change of color and/or a display of text when the time limit is attained, (iii) a unit with a basic part and a pointer which is mounted so that it can be pivoted by a spring force when an adhesive fastening the pointer along the basic part becomes worn and the adhesion falls below the elastic force, (iv) an adhesive applied to a window which is of variable thickness and covers text and/or a pictogram and/or a color forming a signal, (v) a color layer applied to a head of the strip with a gripping part fastening the strip to the arm and enclosing the head, (vi) a material applied along the strip at the level of its narrow part, where the material is of a different color from that of the strip, which is obtained by co-extrusion, (vii) a hole in transverse direction of the strip, (viii) a color rod enclosed by the strip, or (ix) a brush filled with color fastened on the strip.

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L11: Entry 1 of 3

File: EPAB

Feb 6, 2004

PUB-NO: FR002843083A1

DOCUMENT-IDENTIFIER: FR 2843083 A1

TITLE: Device for windscreen wiping with wear indicator for use in automobile vehicles, comprises a neutralization film which is removed at the start of usage to activate the indicator

PUBN-DATE: February 6, 2004

INVENTOR-INFORMATION:

NAME

COUNTRY

GEPPERT, BERNHARD

HERINCKX, DIRK

WILMS, CHRISTIAN

OP, T ROODT INIGO

CEUSTERMANS, JO

BEELEN, HANS

ASSIGNEE-INFORMATION:

NAME

COUNTRY

BOSCH GMBH ROBERT

DE

APPL-NO: FR00309516

APPL-DATE: August 1, 2003

PRIORITY-DATA: DE10235566A (August 3, 2002)

INT-CL (IPC): B60S 1/38

EUR-CL (EPC): B60S001/38

ABSTRACT:

CHG DATE=20040529 STATUS=O>The device comprises at least one brush or strip of a windscreen wiper, where the strip is equipped with a wear indicator (10) which can display the strip usage. The wear indicator measures the period (time) of utilization and/or the wear of the windscreen wiper strip. The wear indicator is an electronic chronometer, or an electronic counter of the number of cycles of wiping, where the wiping cycle represents the movement of the strip from its stationary position back to the stationary position. The electronic chronometer or the electronic counter comprises a switch which is activated at the start of usage, and is equipped with a display including a light-emitting diode (LED) (12). The wear indicator (10) is activated by lifting a neutralization film (13). The wear indicator (10) is fastened by an adhesive and/or screws and/or clipping to at least one strip or an arm (11) of windscreen wiper. The wear indicator allows the adjustment of parameters affecting the wear such as the pressure of application, the temperature, the UV-light, the chemical composition of the rain water, the solid matter content of the rain water, the jetted water, and the characteristics of the material of the brush of windscreen wiper. In other embodiments, the wear

indicator comprises (i) an indicator for measuring the chemical and/or physical reactions as a function of time on at least one brush, (ii) a change of color and/or a display of text when the time limit is attained, (iii) a unit with a basic part and a pointer which is mounted so that it can be pivoted by a spring force when an adhesive fastening the pointer along the basic part becomes worn and the adhesion falls below the elastic force, (iv) an adhesive applied to a window which is of variable thickness and covers text and/or a pictogram and/or a color forming a signal, (v) a color layer applied to a head of the strip with a gripping part fastening the strip to the arm and enclosing the head, (vi) a material applied along the strip at the level of its narrow part, where the material is of a different color from that of the strip, which is obtained by co-extrusion, (vii) a hole in transverse direction of the strip, (viii) a color rod enclosed by the strip, or (ix) a brush filled with color fastened on the strip.

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L11: Entry 2 of 3

File: DWPI

Mar 17, 2004

DERWENT-ACC-NO: 2004-229529

DERWENT-WEEK: 200430

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TITLE: Device for windscreen wiping with wear indicator for use in automobile vehicles, comprises a neutralization film which is removed at the start of usage to activate the indicator

INVENTOR: BEELEN, H; CEUSTERMANS, J ; GEPPERT, B ; HERINCKX, D ; OPT, R I ; WILMS, C ; OP T ROODT, I

PATENT-ASSIGNEE: BOSCH GMBH ROBERT (BOSC)

PRIORITY-DATA: 2002DE-1035566 (August 3, 2002)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> CZ 200301784 A3	March 17, 2004		000	B60S001/38
<input type="checkbox"/> FR 2843083 A1	February 6, 2004		020	B60S001/38
<input type="checkbox"/> DE 10235566 A1	February 12, 2004		000	B60S001/38

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
CZ 200301784A3	June 25, 2003	2003CZ-0001784	
FR 2843083A1	August 1, 2003	2003FR-0009516	
DE 10235566A1	August 3, 2002	2002DE-1035566	

INT-CL (IPC): B60S 1/38; B60S 5/00

ABSTRACTED-PUB-NO: FR 2843083A

BASIC-ABSTRACT:

NOVELTY - The device comprises at least one brush or strip of a windscreen wiper, where the strip is equipped with a wear indicator (10) which can display the strip usage. The wear indicator measures the period (time) of utilization and/or the wear of the windscreen wiper strip.

DETAILED DESCRIPTION - The wear indicator is an electronic chronometer, or an electronic counter of the number of cycles of wiping, where the wiping cycle represents the movement of the strip from its stationary position back to the stationary position. The electronic chronometer or the electronic counter comprises a switch which is activated at the start of usage, and is equipped with a display including a light-emitting diode (LED) (12). The wear indicator (10) is activated

by lifting a neutralization film (13). The wear indicator (10) is fastened by an adhesive and/or screws and/or clipping to at least one strip or an arm (11) of windscreen wiper. The wear indicator allows the adjustment of parameters affecting the wear such as the pressure of application, the temperature, the UV-light, the chemical composition of the rain water, the solid matter content of the rain water, the jetted water, and the characteristics of the material of the brush of windscreen wiper. In other embodiments, the wear indicator comprises (i) an indicator for measuring the chemical and/or physical reactions as a function of time on at least one brush, (ii) a change of color and/or a display of text when the time limit is attained, (iii) a unit with a basic part and a pointer which is mounted so that it can be pivoted by a spring force when an adhesive fastening the pointer along the basic part becomes worn and the adhesion falls below the elastic force, (iv) an adhesive applied to a window which is of variable thickness and covers text and/or a pictogram and/or a color forming a signal, (v) a color layer applied to a head of the strip with a gripping part fastening the strip to the arm and enclosing the head, (vi) a material applied along the strip at the level of its narrow part, where the material is of a different color from that of the strip, which is obtained by co-extrusion, (vii) a hole in transverse direction of the strip, (viii) a color rod enclosed by the strip, or (ix) a brush filled with color fastened on the strip.

USE - In windscreen/windshield wipers for use in automobile vehicles, in order to detect the state of wear which requires replacement.

ADVANTAGE - The period of usage and the state of wear can be detected at an early stage when they are not yet critical for the safety of driving.

DESCRIPTION OF DRAWING(S) - The drawing is a plan view of the windscreen wiper arm with the wear indicator, the wear indicator before lifting the film, and the wear indicator after lifting the film.

Wear indicator 10

Arm of windscreen wiper 11

Warning display, LED 12

Neutralization film 13

ABSTRACTED-PUB-NO: FR 2843083A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.2/16

DERWENT-CLASS: Q17 S03 W05 X22

EPI-CODES: S03-F02B; W05-A03A; X22-E10; X22-J01;

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L11: Entry 2 of 3

File: DWPI

Mar 17, 2004

DERWENT-ACC-NO: 2004-229529

DERWENT-WEEK: 200430

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TITLE: Device for windscreen wiping with wear indicator for use in automobile vehicles, comprises a neutralization film which is removed at the start of usage to activate the indicator

Basic Abstract Text (2):

DETAILED DESCRIPTION - The wear indicator is an electronic chronometer, or an electronic counter of the number of cycles of wiping, where the wiping cycle represents the movement of the strip from its stationary position back to the stationary position. The electronic chronometer or the electronic counter comprises a switch which is activated at the start of usage, and is equipped with a display including a light-emitting diode (LED) (12). The wear indicator (10) is activated by lifting a neutralization film (13). The wear indicator (10) is fastened by an adhesive and/or screws and/or clipping to at least one strip or an arm (11) of windscreen wiper. The wear indicator allows the adjustment of parameters affecting the wear such as the pressure of application, the temperature, the UV-light, the chemical composition of the rain water, the solid matter content of the rain water, the jetted water, and the characteristics of the material of the brush of windscreen wiper. In other embodiments, the wear indicator comprises (i) an indicator for measuring the chemical and/or physical reactions as a function of time on at least one brush, (ii) a change of color and/or a display of text when the time limit is attained, (iii) a unit with a basic part and a pointer which is mounted so that it can be pivoted by a spring force when an adhesive fastening the pointer along the basic part becomes worn and the adhesion falls below the elastic force, (iv) an adhesive applied to a window which is of variable thickness and covers text and/or a pictogram and/or a color forming a signal, (v) a color layer applied to a head of the strip with a gripping part fastening the strip to the arm and enclosing the head, (vi) a material applied along the strip at the level of its narrow part, where the material is of a different color from that of the strip, which is obtained by co-extrusion, (vii) a hole in transverse direction of the strip, (viii) a color rod enclosed by the strip, or (ix) a brush filled with color fastened on the strip.

Basic Abstract Text (3):

USE - In windscreen/windshield wipers for use in automobile vehicles, in order to detect the state of wear which requires replacement.

Standard Title Terms (1):

DEVICE WINDSCREEN WIPE WEAR INDICATE AUTOMOBILE VEHICLE COMPRISE NEUTRALISE FILM
REMOVE START ACTIVATE INDICATE

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L11: Entry 3 of 3

File: DWPI

May 8, 2003

DERWENT-ACC-NO: 2003-730052
DERWENT-WEEK: 200369
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TITLE: Horizon attitude direction indicator for vehicles e.g. aircraft, has container filled with two immiscible liquids of varying densities and color, and translucent surface with marking that indicates horizon

INVENTOR: HUGHES, M

PATENT-ASSIGNEE: HUGHES M (HUGHI)

PRIORITY-DATA: 2001US-0006352 (November 8, 2001)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>US 20030084580 A1</u>	May 8, 2003		005	G01C009/18

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US20030084580A1	November 8, 2001	2001US-0006352	

INT-CL (IPC): G01C 9/18

ABSTRACTED-PUB-NO: US20030084580A
BASIC-ABSTRACT:

NOVELTY - The indicator has a container (12) with a defined volume and a translucent surface portion having markings (18, 20) that indicates the horizon. Two immiscible liquids (22, 24) each having different density and color occupies the volume of the container. The translucent portion is disposed in such a way that it permits the visual inspection of the liquids inside the container.

USE - Used for displaying horizon attitude of vehicles e.g. aircraft.

ADVANTAGE - The indicator is less susceptible to mechanical or electrical failures.

DESCRIPTION OF DRAWING(S) - The drawing shows a perspective view of the horizon attitude direction indicator.

Container 12

Ends 14, 16

Markings 18, 20

Immiscible liquids. 22, 24

ABSTRACTED-PUB-NO: US20030084580A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/4

DERWENT-CLASS: S02 W06

EPI-CODES: S02-A01C4; S02-A04; S02-B03; S02-K06X; W06-B01B1;

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L11: Entry 3 of 3

File: DWPI

May 8, 2003

DERWENT-ACC-NO: 2003-730052

DERWENT-WEEK: 200369

COPYRIGHT 2007 DERWENT INFORMATION LTD

TITLE: Horizon attitude direction indicator for vehicles e.g. aircraft, has container filled with two immiscible liquids of varying densities and color, and translucent surface with marking that indicates horizon

INVENTOR: HUGHES, M

PATENT-ASSIGNEE: HUGHES M (HUGHI)

PRIORITY-DATA: 2001US-0006352 (November 8, 2001)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> US 20030084580 A1	May 8, 2003		005	G01C009/18

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US20030084580A1	November 8, 2001	2001US-0006352	

INT-CL (IPC): G01C 9/18

ABSTRACTED-PUB-NO: US20030084580A

BASIC-ABSTRACT:

NOVELTY - The indicator has a container (12) with a defined volume and a translucent surface portion having markings (18, 20) that indicates the horizon. Two immiscible liquids (22, 24) each having different density and color occupies the volume of the container. The translucent portion is disposed in such a way that it permits the visual inspection of the liquids inside the container.

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Container 12

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Markings 18, 20

Immiscible liquids. 22, 24

ABSTRACTED-PUB-NO: US20030084580A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/4

DERWENT-CLASS: S02 W06
EPI-CODES: S02-A01C4; S02-A04; S02-B03; S02-K06X; W06-B01B1;

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